From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: lbbarley@feist.com (Bruce Barley)
Subject: [1283] clock face pots
Message-ID: <199610071842.NAA21993@wichita.fn.net>

In the course of my wanderings, gathering the necessities for my next QRP project, I have acquired several miniature 10 Turn, CLOCK FACE potentiometers. I don't have an immediate use for them, and they are just neat enough that I thought I would offer them to anyone on the list who actually has a use for one. I am offering them, one per individual, for five units of postage to cover mailing. They have an "hour" hand and a "minute" hand, just like an analog clock, and numbers around face of dial from 1 to 10. Used. Panel mount via integral threaded bushing at rear of knob, about 3/8 diameter. The clock face and hands are built into the knob. Maybe just the thing for your qrp varactor tuning.

Here is the description: Surprise! NO name of mfg. showing anywhere. But there is a patent #, so I guess you could find out whose they are by looking up the patent. Patent # 3,069,646. Also some other numbers which could be catalog #'s. Somebody paid a chunk of change for these at one time. (Probably with our tax $, too.)

    1 K ohm .7 dia. knob X .9 depth of knob. - 1 ea.
    200 ohm .7 dia. knob X .9 depth of knob - Lens missing over clock face. - 1 ea.
    2 K ohm 1.2 dia knob X 1.25 depth of knob - 1 ea.
    500 ohm 1.2 dia knob X 1.25 depth of knob - Needs a dot of adhesive to secure actuator - 1 ea.

DO NOT REPLY VIA THE QRP-L LIST ! Reply off list to my e-mail account ONLY! I have an entire garage, and half a basement full of projects for 'someday'. Someday, when overtime lets up... Someday when (I should live so long!) I retire... Someday. I've don't have room for everything, so if you really have a use for one, e-mail me your name, a US postal service mailing address, and your e-mail address that I may get back to you. I WILL let you know if you were fortunate (?) enough to get the value you spoke for. If you haven't heard from me in a week or so, rattle my cage. I will let you know either way.

I will take names until Wednesday or so, to give time for those who get the digest to respond if they wish. Then my wife will select the names of the lucky recipients.

Best wishes for your next qrp project.

Bruce Barley KB0PZD qrp-l #69
lbbarley@feist.com

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Dale Anderson <dalea@artemis.fc.hp.com>
Subject: [1279] CQ P ???
Message-ID: <9610071753.AA21328@artemis.fc.hp.com>

Hi All,

I realize over the weekend there was the CA QSO Party. The phone bands were PACKED end-to-end with that. But I noticed the CW bands were jammed with "CQ P" and "CQ TEST". Were they part of the same??? The 80m CW segment was UNbelievably busy. Wanted to snag some EMPS points, but didn't think exploiting a competition was an ethical way to do it.

In other news... Tried experimenting with an 80m horiz loop to see if it would quiet the QRN I'm getting from the nearby HV pwr lines. Noticed NO difference, so I took it down before the XYL saw just how visible this was going to be in our "antenna free" neighborhood. My experiment was a success, but my results were negative. Oh well...

While I was up there, I tried putting 20m traps in my 40m dipole. Darn thing, then would not load ANY band without SERIOUS transmatch compensation, so I pulled them out too. Nothing worse than having a 66' dummy load! Must've miscalculated something. Tests indicated I needed to trim the hey out of it, but I ran out of weekend so I shelved the idea for another day. But what a wonderful way to spend a beautiful fall weekend!!!

72/73
Dale, KB0VCC
Fort Collins, CO

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: James Bell <jim.bell@canada.cdev.com>

Subject: [1261] DANGER--TV CRT
Message-ID: <199610071358.JAA65234@nss2.CC.Lehigh.EDU>

To ALL
Recent mail here has mentioned TV CRT's and breaking
the rear glass nipple seal.
 DO NOT ATTEMPT TO BREAK THE FRONT FACE.
A tv CRT has a very high internal vacuum.
When you break the front glass, the tube implodes
with disasterous results. The electron gun assembly can be
"sucked" forward through the tube and become a projectile
out to the front of the tube.Shards of glass can fly about
 and do a lot of damage. In the past, these gun assemblies
have been known to penetrate walls of rooms.
  I have seen damage to a room where a kid shot a BB Gun at
 the TV and the tube imploded. In times past, tv's used to
 have an armored glass in front of the tube. Manufacturing
costs have done away with this safety feature.
Take great care when dealing with old tv CRT's.
  72   JIM   VE3DDY

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: PDouglas12@aol.com
Subject: [1263] Dinner with Chuck, Preston, et al
Message-ID: <961007103348_538190223@emout04.mail.aol.com>

Gang,

Please email me if you plan to join us for dinner Wednesday night in the
Greenwich Village area of NYC. That's this Wednesday night, Oct 9th at 7:30
pm, local time. Chuck Adams is meeting me, Father Bowes and one or two
others. Even if you have emailed me before about joining us, please now
email me your firm intentions. I will make reservations and notify those who
are coming the name of the restaurant etc. I must know whether you plan to
join us by tomorrow, Tuesday, in order to make reservations for Wednesday.
 So please RSVP promptly. Of course all on the list would be welcome--locals
take note--we plan to have a relaxed dinner and talk QRP.

72,

Preston

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996

From: Brad Mugleston <bmug@gwl.com>
Subject: [1271] FOX - Novice
Message-ID: <199610071556.AA01614@gp-ipc59.gwl.com>

Good Morning

Well I got on this weekend to play with my setup (Raised the low end of my G5RV up 8 feet) - what a mess. Got frustrated so I bounced up to 100W (sorry) and got 1 1/2 contacts (one full exchange before I lost em and one lost before we got done handshaking).

My son, Derek, and I did use his call to play in the California Counties party - boy is voice easy - the hardest part was timing your call between everyone elses. I can see why everyone on this list loves CW and QRP - might as well use the phone for voice.

Anyway - I will be on tomorrow evening (local) - (0100 to 0300Z October 9th Z) around 7.110 (it seems to be clear here in Colorado) If I don't get much of a response I will move up to 7.115 then to 7.120 all +- QRM QRN. I will be there the whole 2 hours - a 3X3 CQ with maybe a FOX thrown in if I can remember how to send a / and an F (F's are hard) 8^). If while your looking for me you notice some BC or some clear space post it to the list for the next FOX hunt.

OH Yea, I tried 80M - no luck.

de KB0ROL, Brad

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: AE0Q / V31RY <v31ry@ix.netcom.com>
Subject: [1277] FS: MFJ QRP radios
Message-ID: <2.2.16.19961007113626.3f975f1e@popd.ix.netcom.com>

If interested in any of these items, please reply directly to WB0JNR (at the freenet e-mail address)..

For Sale: MFJ 9040 with filter $115
MFJ 9020 110
Both MFJs with bracket 215
Palomar R-X Noise Bridge 50

All in Great Condition

I'll Pay Shipping - WB0JNR
Roger J. Wendell (303) 693-4244
Email: aq328@freenet.uchsc.edu

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Marshall Emm <75230.1405@CompuServe.COM>
Subject: [1287] Group Offer Withdrawn
Message-ID: <961007202659_75230.1405_HHB43-1@CompuServe.COM>

I regret the necessity of advising that, effective immediately, Milestone Technologies will no longer offer kits from Oak Hills Research. The reasons for this decision are purely economic, and have nothing to do with the quality of the kits.

Marshall Emm
AA0XI

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Mike J Pulley <Mike_J_Pulley@ccm.ch.intel.com>
Subject: [1286] Need help with NE-4040

Bill,

I read the digest, so you may already have your answer.

Your problem sounds suspiciously like one I encountered during my 4040 debugging. My case resulted from overdriving the output RF.

Make sure you have an adequate power supply. The 1/8A fuse I used offered enough series resistance to cause the broadband oscillations you describe. After I replaced it with a larger fuse (1/2A, I think... maybe it was 1A), everything cleared up, until...

The same bug raised its ugly head again when I used a gel cell battery that provided slightly less voltage. After operating a while, the transmitter started oscillating across the band. I reduced the RF drive level a little and everything cleared up again.

If you can look at it on an oscilloscope (use a dummy load), the nasty oscillations correspond to a distorted sine wave. Play with it and see what I mean.

Now I run at 0.95W, so never come close to overdriving the PA.
:-) Another benefit of QRPp...

Let us know what you discover.

Regards,

-- Mike Pulley, WB4ZKA

Phoenix, Arizona USA
Mike_J_Pulley@ccm.hf.intel.com

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: SCN User <nwqrp@scn.org>
Subject: [1255] New NWQ Newsletter on the Web

Yes it's true, gang,

The Oct. 1996 Newsletter is waiting at the site listed below!

--Brian, KV9X

```
    i                     NorthWest QRP Club                    __________
-=[scn]=-                                                       --0---/\--
   )|(                        nwqrp@scn.org                     /^\^\/ ^^\
  /_|_\              http://www.scn.org/IP/nwqrp                --NW QRP--
```

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: PDouglas12@aol.com
Subject: [1285] Oct 9 Dinner with Chuck Cancelled!
Message-ID: <961007152858_327705103@emout03.mail.aol.com>

Sorry fellas. After all that, Chuck's company cancelled his trip. I just got
his emailed regrets. I imagine nobody is more disappointed than
Chuck--except maybe me. I am sure he will post something too.

72,

Preston WJ2V

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [1280] October NorCal Meeting Report (Long)
Message-ID: <1.5.4.16.19961007101643.231f129c@telis.org>

The October meeting of the NorCal QRP Club was buzzing with activity. Lots of things to see and share, plus we distributed SD-20 telescoping poles to build St. Louis Verticals. Jim Cates ordered 24 of the poles for the club and I picked them up Saturday at Jim's house. I took them to the meeting and Jim and I had discussed that we sure hoped we would be able to sell them by Pacificon. Not to worry. I asked Dave Adams to help carry in the poles, and Ralph Butler volunteered to help. We went out to my pickup and got the poles. On the way, David and Ralph asked if they could buy their poles before we got inside so they could escape the mob of activity. I said sure why not, and stopped to take their money. Before I knew what happened, we were out of poles, guys were still wanting them, and I was amazed. I huddled quickly with Jim and we announced that we would order an additional 48 to have at Pacificon, and at the next meeting. Plus, Jim and I think that we have a way to ship the poles safely to individual members. I will announce details later. But, we will order enough poles to take care of all who want them. Construction details of the St. Louis Vertical Antenna and mods will appear on the NorCal Web Page. Please check it out. This posting has illustrations that were not in the original article and should make it easier for you to visualize the antenna. Thanks go to Dave Gauding NF0R for shareing the St. Louis Vertical with us.

Dave Stoddard, W8ELL had his Cascade with him, and the unusual thing was that Dave's Cascade is on CW too!! He added a keyer, generates CW and shifts the frequency to the CW portion of the band by using several add on boards and switches. Quite complicated looking to me, but it does work fine! Our members continue to amaze me.

I brought the KI6DS version of the Arizona Scorpion MiniMag Paddles that I made for Jim Cates to add to his collection of QRP "stuff". There will be a construction article on how to build the paddles in the next issue of QRPp, and the good news is that they can be built using common hardware and hobby shop items and the only tools needed are a 1/4" electric drill, hacksaw, and file. Of course, I used my 700 pound Enco milling machine and Sherline table top lathe to build the KI6DS version. All that it did was make the job easier. The paddles have no springs and use a magnetic action for the return of the paddle arms. Floyd Smithberg, NQ7X, of the Arizona Scorpions came up with the design. Floyd has a great set of paddles, with very fine adjustment, and they are quite rugged, perfect for portable use. I enjoy watching the faces of guys who try them out. It is almost always a "Hey, those feel good." The reaction is one of surprise, because I think that they have tried home brew paddles before and not been happy with the "feel".

There was a visitor from Japan there that I did not get to meet. A couple of the guys told me about him, and on the way home I thought about the following. If you are a new member or visitor to one of the NorCal meetings, please introduce yourself to Jim or I. We want to meet you and make you feel welcome, plus we can probably point you in the direction of a couple of guys who are also interested in your "specialty". NorCal meetings have no structure, they just happen. If you come to the meeting and don't introduce yourself, we might miss the opportunity to meet you, and we don't want to miss the opportunity to get to know you. Lots of guys have questions for Jim and I at meetings, but we do want to always take time to meet new members and beginners in the hobby, or as sometimes happens, we get "distant" longtime NorCal members who attend a local meeting for the first time. Please, please introduce yourself to Jim and I, we do want to shake hands, say hello, and put a face with the name on the membership list.

Jerry Parker, WA6OWR, is becoming a fixture at the NorCal meetings. He drives all the way from Paso Robles to attend and take pictures. Jerry is the guy who does the wonderful work with the NorCal Web Page. He had a unique t-shirt which had the circuit of the 49er on it! Jerry is going to take orders at Pacificon for the shirts or you can contact him via the NorCal page.

Dennis Utley, a longtime NorCal member finally got to make the meeting. Dennis had a digital camera with him, and amazed all of us with the ability to take pictures during the meeting, and then he put them on his laptop, and we all saw them, at the meeting!! Jerry and I both purchased the cameras for use with the NorCal page and QRPp. You should be seeing even more pictures soon on the page and in QRPp.

Wayne Burdick, N6KR, and I sat down an finalized the next NorCal project. It will be the SST, which is the successor to the 49er. This rig will be a "real radio" to quote Wayne. Please be patient. We will announce when we will be taking orders and further details later, when it is time. I can tell you that the rig will have a vfo, sidetone, agc, 20 KHz coverage, superhet receiver, 5 pole output filter, works on 9V, and more! This kit will be done like the 49er, in that no limit will be put on the production of the kit. We won't just produce 100 of them, so that every member will have a chance to buy one of these.

Bob Dyer of Wilderness Radio was there and he had the new "Buzznot" noise blanker kit that Wilderness has added to their line. Bob also is making arrangements to have a booth at Pacificon in the same location that the club has had in the past. We will not have a booth this year, as we are having 6 QRP forums (5 on Saturday, 1 on Sunday), and an Open House (sort of an extra NorCal meeting) on Saturday evening.

Don't forget the West Coast 49er building contest at the Saturday night NorCal Open House. Chuck Adams, K5FO will be there and is in charge of the judgeing. Chuck is a world famous QRP judge who has more experience judging contests than anyone that I know of (plus he has probably built more QRP rigs than anyone out there).

Vern Wright, W6MMA, brought his version of the St. Louis Vertical and set it up as a demo outside. Vern used 1.5" heatshrink to cover the

coil and it really looks nice.
        It was another fun day. Hope to see you at the QRP Forums at Pacificon. There is NO Charge to go to the Symposium, but there is a $3 charge for advance tickets and $5 at the door for Pacificon tickets. We will have an excellent QRP Symposium, so be sure to make plans. The first session is at 9:00 AM and features Chuck Adams, K5FO, speaking on "QRP and the Internet".

72, Doug, KI6DS

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: JUKKA AHLGREN <JUKKAA@jypoly.fi>
Subject: [1256] QRP Power (the book)
Message-ID: <s258fb57.074@jypoly.fi>

What is the price for QRP Power in the U.S.A.?
And where to buy it? My brother lives in Wisconsin and
he can buy it for me. Our local supplier here in Finland
does not have it yet.

Jukka OH6SC

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Richard Fisher <ki6sn@pe.net>
Subject: [1268] Spartan Sprint Monday Night
Message-ID: <Pine.GSO.3.95.961007080952.10526A-100000@arlington>

The October Spartan Sprint will be held on October 7 (which is our standard date--the first monday of the month).

All operators are invited to play, whether or not they are members of Adventure Radio Society. Even if you don't have lightweight equipment, your participation will be rewarding, both for you and the other participants. We'll report the score in two different formats--absolute scores, and QS0s per pound of station weight. So you can get your kicks from running up a magnificent score, or achieving an remarkable ratio of Qs per pound.

ARS provides handsome certificates to the operators who achieve the top four scores in the Qs per pound category.

1. Start at 9:00 PM EDT, 8:00 CDT, 7:00 MDT and 6:00 PDT.
Finish at 11:00 PM EDT, 10:00 CDT, 9:00 MDT and 8:00 PDT.

2. Use 7040 +- Khz and 14,060 +- Khz (You may operate one or two bands--your choice).

3. Exchange RST, SPC (state, province or country) and power output.

4. If you choose to call CQ, use the format "CQ SP".

5. If you are operating under the portable QRP rules, add "/PQ" to your call. (You can find those rules at our web site, http://members.aol.com/adradio/index.html)

6. You can take credit for working the same station on a second band.

After the contest, send Richard Fisher e-mail with your total QSOs and the total weight of your station (i.e., the combined weight of the transmitter, receiver, antenna tuner, key, keyer and battery). You may also include your comments from the soapbox. If you get that information to Richard by Tuesday night, he'll include your data in the contest results, which he'll publish on Thursday, October 10 on QRP-L. Richard's e-mail address is KI6SN@aol.com.

72, Russ Carpenter, AA7QU
ARS#1

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [1284] SST board
Message-ID: <M1088778.007.x5xq6.1.961007185620Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Jack, KB0PJE, of Houston, wrote"

"I'm putting in just 1 vote for making the board size LARGE for the SST

(and other designs meant to spur experimentation). Like maybe 3x 4, or

 4 x 4, etc...."

I have to agree. The 40-9er has been a boot, but I'm still trying to get mine to work well. It is just too darn small for fumble-fingers here to work on easily. I'd like to see a little "wiggle room" on the SST board. This will facilitate trouble shooting at first, and more easily accomodate the inevitable mods we all will contemplate.

I have no great desire to fit an SST into an Altoids can, a Mason jar or anything else other than a reasonable-sized chassis or cabinet. I certainly admire the skills of those who do this. I want to be able to work on it, tinker with it, maybe re-invent parts of it. But mostly I want it at a physical size I can see!.
72, Bob N6WG

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: David Adams <dave@flowserver.stem.com>
Subject: [1281] St Louis Vert on 80
Message-ID: <9610071816.AA10550@flowserver.stem.com>

Question: Since the SLV is resonant at around 5mhz has anyone replaced the twinlead coil with a single lead coil (making lots of room for more wire) and resonating the whole on 80m? I'm thinking primarily of max efficiency for Cascade owners out there, but it seems like a fairly good idea that wouldn't hurt performance on other bands (then again...what I know about helically-wound verticals you could fit in a 35mm film can).

73 de dave, n9uxu

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [1275] St. Louis Vertical Poles
Message-ID: <1.5.4.16.19961007090532.2357198a@telis.org>

Yesterday, NorCal sold out of our first shipment of 24 SD-20 telescoping antenna err fishing poles. These are the 20' poles that are used in the St. Louis Vertical that appears in the Sept. issue of QRPp. Guys are starting to build the antenna and we are getting excellent reports. The St. Louis Vertical article will appear on the NorCal Web site very soon if not there already, complete with illustrations that did not appear in the QRPp article, and some mods that have been suggested. If you come up with a mod or another use for the ST. Louis Vertical idea, please post it here and send a copy to Jerry Parker for the NorCal Web Page. The idea here is to share

information.

Jim Cates is ordering 48 more of the poles and we hope to have them in time for Pacificon. Also, there is a very high possibility that we will be able to ship the poles individually to our members in the US, but there will be a higher cost to cover the shipping and packing. We have come up with a novel way to ship it, and just need to work out the details. Please don't send messages to Jim or me asking to be put on the list for St. Louis Vertical poles. We will reorder if necessary in order to supply one to all who want them.

By the way, I never got inside the California Burger with the poles, as I sold out before I got to the door. Guys were eager!! We will have them at Pacificon see Jim or myself to get one. 72, Doug, KI6DS

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: "WILLIAM R. COLBERT" <v31xe@dzn.com>
Subject: [1262] [Fwd: [listproc@Lehigh.EDU: Error Condition Re: manuals]]
Message-ID: <32591BBD.66DE@dzn.com>

From: af852@rgfn.epcc.Edu
From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
Subject: [1258] Re: 10 meter DSB Transmitter
Message-ID: <v03007800ae7e971b72d9@[132.235.72.11]>

>Greg, now that I found my other box of 73 magazines, I misplaced you
>message regarding which issue. Sorry. Please advise.
>
>73.......Steve, WB6TNL

Steve and all,
I received a copy of the article (It was from the

July 1992 73 Amateur Radio Today magazine) in the mail on Saturday.

(It's Monday now...) The funny thing is that it came anonymously!

There was not return address. I threw away the envelope before

I realised that and didn't check the post-mark. I am now in

the status of a "happy camper."

Anyway, to whom ever sent it...Thanks! 73 de NS8O

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: lve1@inel.gov (Larry V East)
Subject: [1267] RE: ARCI Contacts
Message-ID: <2.2.16.19961007150010.27bf1090@eloi>

I see posts now and then asking "how to contact the ARCI". The following is from the ARCI WEB page (http://www.duke.edu/~djohnson/arci.html/). A membership application can also be found there, or you can send $2 to Mike Bryce (address below) for a sample copy of the QRP Quarterly and a membership application form.

This is the page that shows who to contact with comments, questions, or problems regarding QRP ARCI activities, including the various editors of the QRP Quarterly.

When corresponding by US Post, PLEASE include an SASE of an appropriate size if you expect a response. Email addresses are also included here.

*Subscriptions, dues, membership: Mike Bryce, WB8VGE; P.O. Box 508; Massillon, OH 44648-0508; 73357.222@compuserve.com

*Technical articles: Ray Anderson, WB6TPU; 3440 Gross Road, Santa Cruz, CA 95062; rander@netcom.com

*Feature articles and Letters to the Editor: Larry East, W1HUE; 1355 S. Rimline Dr., Idaho Falls, ID 83401.

*Idea Exchange: Mike Czuhajewski, WA8MCQ; 7945 Citadel Drive, Severn, MD 21144; wa8mcq@abs.net

*QRP Contests: Cam Hartford, N6GA; 1959 Bridgeport Ave; Claremont, CA 91711; CamQRP@cyberg8t.com

*Member News: Richard Fisher, KI6SN; 1940 Wetherly St. Riverside, CA 92506; KI6SN@aol.com

*Nets: Danny Gingell, K3TKS; 3052 Fairland Road, Silver Spring, MD 20904; K3TKS@abs.net

*Awards: Chuck Adams, K5FO; PO Box 181150, Dallas, TX 75218-8150; adams@sgi.com

*Club Operations: Buck Switzer, N8CQA (Buck is current President and Chairman of the Board); 654 Gerogia Ave, Marysville, MI 48040; n8cqa@tir.com

*Club Information Packets: (Include $2): Mike Bryce, WB8VGE; P.O. Box 508; Massillon, OH 44648-0508; 73357.222@compuserve.com

*QRP Really: Bruce Muscolino, W6TOY/3; P.O.Box 9333, Silver Spring, MD 20916; w6toy@pop.erols.com

*Milliwatting: Bob White, WO3B; 8293 Shilling Road, Pasadena, MD 21122; bob.white@ccmail.sms.lmco.com

*QRPClubhouse: Bob Gobrick, VO1DRB/WA6ERB; P.O. Box 1591, Champlain, NY 12919; 70466.1405@compuserv.com

*Managing Editor, QRP Quarterly: Monte "Ron" Stark, KU7Y; 3320 Nye Drive, Carson City, NV 89704; ku7y@sage.dri.edu

Other QRP ARCI Officers and Committee Chairpersons:

Secretary / Treasurer: Myron Koyle, N8DHT; n8dht@imperium.net

Central (USA) Division Rep: Hank Kohl, K8DD; k8dd@tir.com

Western (USA) Division Rep: (position currently open)

Eastern Canada Rep: Bob Gobrick, VO1DRB; 70466.1405@compuserv.com

Western Canada Rep: Rick Zabrodski, VE6GK; zabrodsk@med.ucalgary.ca

Board Member: Cameron Bailey, KT3A; kt3a@aol.com

Eastern (USA) Rep: Jim Stafford, W4QO; w4qo@america.net

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [1270] Re: Copper Top Tester Wattmeter?
Message-ID: <200007070034.TAA29776@multi2.pic.net>

Fantastic idea, Randy!

Mike K1MG

Saratoga, CA

> From: WJ4PRandy@aol.com
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Copper Top Tester Wattmeter?
> Date: Sunday, October 06, 1996 5:21 PM
>
> I was about to throw out a 9 volt battery
> package (Duracell) with the battery tester
> on it and decided to cut it out to have handy
> for testing the errant 9v battery or two ...
> I've been going through a few lately operating
> the 40-9er I just built. What a great "novelty"
> radio!!!
>
> Anyway, call me curious, I couldn't help noticing
> the resistive loads that heat up to affect the
> liquid crystal indicators. It measures 62 ohms !!!
> It takes a few seconds of RF from the 40-9er at
> 400mw to make the bottom segement "light up"
> but it does!!!
>
> I think I have a winner for the ARCI building contest!!!
> Seriously, has anyone else looked at these testers
> for possible power meters? (spelled CHEAP)
>
> OK, I know, I have too much time on my hands!!
> 73, Randy WJ4P

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Bob Hirsch <bobh@p3.net>
Subject: [1272] Re: Copper Top Tester Wattmeter?
Message-ID: <1.5.4.32.19961007161850.0066cecc@p3.net>

I sent this to Randy and then realized there might be others on the list who
would want to read the article.

Hello Randy --

I don't know about too much time on your hands, but this has already been
written up! The article was by Richard Arndt WB4TLM and appeared in CQ
magazine July 96, page 26. So you are not alone!!

When I saw your post it rang a bell and I went to my old magazine pile and

found it!

>> I think I have a winner for the ARCI building contest!!!
>> Seriously, has anyone else looked at these testers
>> for possible power meters? (spelled CHEAP)
>>
>> OK, I know, I have too much time on my hands!!
>> 73, Randy WJ4P
>
>
>

____
73 de Bob, AA3ON in New Hope PA

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: WJ4PRandy@aol.com
Subject: [1282] Re: Copper Top Wattmeter
Message-ID: <961007143841_120729186@emout15.mail.aol.com>

Hey gang,
I got a lot of replies indicating I wasn't the first to discover this
feature of the battery testers... hi! Most alluded to an article
in a magazine. The msg below had the details..

>Hello Randy --

>I don't know about too much time on your hands, but this has already been
>written up! The article was by Richard Arndt WB4TLM and appeared in CQ
>magazine July 96, page 26. So you are not alone!!

>When I saw your post it rang a bell and I went to my old magazine pile and
>found it!
>_______________________________
>73 de Bob, AA3ON in New Hope PA

Thanks Bob!!

73, Randy WJ4P

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996

From: "Ahrens Tim" <tahrens@devmail.sps.mot.com>
Subject: [1264] Re: EMPS - OOPS
Message-ID: <9609078447.AA844709666@devmail.sps.mot.com>

Just tried out 80 cw last night... all of my work had
been done on 40 & higher, including when I was a WN5!

Forgot about something though... heard a station sending
a ? & k, so I threw my call sign out. Hey, hooked him
with the Sierra at 2 watts!... whats a QTC?

OOPS, I forgot that there are things as traffic nets
on 80! After apolgies, I signed off. Wondered if the
dits & dahs were as red as I was!

Oh well, he DID hear me!

cu

Tim WA5VQK

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [1265] Re: EMPS - OOPS
Message-ID: <199610071458.IAA20705@zia.aoc.nrao.edu>

Tim,
I used to work the CW traffic nets. Was Net Control Station
for the Southwest CW Traffic Net (SWN). Frankly ... you lived
for some guy to respond to your "QNI? DE NA5N". (Any
traffic?). I politely explained it was a traffic net (although
would rather be QSOing) and we shook hands and parted ways.
It broke the monotony for the traffic net as well.

Nothing to get red over or loose any sleep. It's just a hobby!

72, Paul NA5N

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Bensondj@aol.com
Subject: [1257] Re: NE-4040 help
Message-ID: <961007070125_538127536@emout02.mail.aol.com>

on Sat, 5 Oct 1996, kd7s@psnw.com (Bill Jones) wrote

>>Subject: [1195] Need help with NE-4040

>>Okay, so I messed up. I built an NE-4040 from scratch using ...

>>Here's the problem. The receiver works flawlessly (lots of audio, by the
>>way) but the transmitter is giving me fits. When I align the bandpass
>>filter following the transmit mixer, U5, I get a nice sharp peak right at
>>7.040 mhz. However when I increase the drive with R2, I get an amazing
>>combination of different frequencies at the output of the low pass filter.
>>They vary each time I check the output with my frequency counter but seem
to
>>fall somewhere between 7.3 and 7.5 mHz most of the time.

Hi Bill-

You're not the first to report on this set of symptoms. What you're seeing is an instability in the driver stage at the high-gain end of the R2 adjustment pot range. The output frequency you're seeing is a function of the settings of the transmit filter (trimmer) caps rather than of the desired output from the transit mixer.

 The 40-40 is on a cozy little board, and to get it to fit, I had to use somewhat less ground plane area than I would have liked. Some of the difficulty you mention is due to RF ground current flow back across the edges of the board. When metallic mounting posts are used, some of the current flow is back along the top edge of the board, providing slight coupling back into the TX strip. The most immediate fix for this involves adding coax (RG-174) output from the 'ANT' to your RF connector, taking care to ground the shield at both ends of the coax. The use of non-metallic board spacers, as in my enclosure kit, also assists in this regard as it constrains the RF return path to the coax alone. Bob Gobrick (VE2DRB) had noted this improvement in a QRP-L post some months back. My enclosure uses plastic mounting posts made by Richco (sold by Digikey); #6-32 nylon hardware from your local hardware emporium would fill the bill as well.

 Mitch Lee (one of the authors of the excellent article in 'QRP Power' reviewing this design) had suggested a mod to me which may be useful. They correctly noted that the ground return path length for the PA decoupling could be improved on. Here's how:

Orient the board on its back so that the PA circuitry (Q6, L4, etc)is in the board's upper left corner.   Add a 0.1 uF ceramic disk capacitor from the cold side (i.e., the right-hand pad) of L4 straight down to the board's center ground trace (near the PA's emitter lead). Use minimum lead length.

This gets the bulk of the return current to ground where it won't end up coupling back into the driver section. (As an aside, you'll note that the ground trace which runs across the center of the board is interrupted in the middle. This was deliberate, and based upon the same consideration of ground current flow.) I hope this helps- let me know how you make out.

73,   Dave- NN1G

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: rcrampton@gtc.itt.com
Subject: [1259] Re: Negative Voltage
Message-ID: <258fff20@gtc.itt.com>

> I'm with Dana on this one. The 7660 chips are popular, and everyone's got a version of it (Linear Technology, National, etc.), Maxim has a family of parts for this with the 85x series number (if memory serves me correctly). As Dana said, they don't usually supply much current (maybe 100 mA tops), so you might get limited there, and they are VERY noisy. I'm integrating one with a cellular phone PA right now, and have to filter the crud out of it!
>
> Also, watch for the upper supply limits, most of the 7660 types I've seen are only good to 9 volts or so, and there is often a spec. that limits the input - output voltage to 12V or so, which in your case is 24V.
>
> If you need more current you can look at an inverting switching supply, which is also pretty easy to build, and just as noisy!
>
> Good Luck & 73's, Go Hokies! (I graduated from VT in 94, 95, and still spend some weekends in b-burg, until the weather gets colder!)
>
> Ray, KN4SK

_____ Reply Separator _____
Subject: Negative Voltage
Author: pelt@vt.edu at Internet
From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: W3HMS@aol.com
Subject: [1276] Re: October QRP Quarterly
Message-ID: <961007131123_327593407@emout14.mail.aol.com>

Eric and the Gang..

A good friend of mine got his, Quarterly, but I am paid and I didn't get mine.

Can anyone add some light?

73,

John ,

W3HMS

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: lve1@inel.gov (Larry V East)
Subject: [1278] RE: OHR Group Buy
Message-ID: <2.2.16.19961007174824.27978c5a@eloi>

>
>OHR 100 Single band, 5 watts, in 15/17/20/30/40 meters - $149.00
>

Hmmm... a 6.9% discount doesn't exactly get my "gotta buy it" juces flowing, but then this is a new item and is probably selling well anyway. Nice discount on the OHR400 and CL2040 tho... naw, I already have enough stuff lined up for the "winter building season". But if someone could negotiate a "group buy" for the soon to be introduced TenTec monoband kits... :-) :-)

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Alex Mendelsohn <alexm@pennwell.com>
Subject: [1273] RE: QRP-L digest 505
Message-ID: <BE44112E01E40200@smtp.pennwell.com>

7 October 1996

Hello all:

I've received some takers for the schematic for my 6L6 Colpitts oscillator QRP rig as well as for the schematic for the two-tube regenerative receiver. Most of the mailings have gone out via US SNail, so watch your mailboxes if you sent me an SASE!

I'd be happy to send out more schematics to anyone who sends an SASE to my callbook address. BTW: the printouts are from OrCAD files. I could also send anyone these files if you send me a 3.5-in. 1.44 Mbyte DOS floppy.

Does anyone know if I can post those files here?

Oh yes, I'm still looking for a Heathkit AT-1 and have a Heathkit DX-35 in really nice condx for trade.

Vy 73, Alex, AI2Q, in Kennebunk, Maine, QRP-L #687 .-.-.

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: "Paul R. Valko" <prvalko@oakland.edu>
Subject: [1288] Re: SST board
Message-ID: <Pine.OSF.3.91.961007162008.13189B-100000@saturn.acs.oakland.edu>

On Mon, 7 Oct 1996, Bob Tellefsen-CNSE97 wrote:

> "I'm putting in just 1 vote for making the board size LARGE for the SST

Let's not start a thread on this... OPPS too late! :-)

I vote for the SST to be as small as possible. The 49er is huge and the fact that you really need to put it in a big metal box (like an Altoids case) shows how inefficient the physical layout is.

Maybe this is the project that takes us to surface mount technology?

Now... all kidding aside... try to keep the same form factor as the 49er. Anyone can EXPAND a PCB design, but shinking them is REALLY hard.

73! =paul= wb8zjl

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: nskousen@scientech.com (Niel Skousen)
Subject: [1289] Re: SST board (w/ KC-1? :-)
Message-ID: <v02140b07ae7f1c877ec0@[198.60.91.132]>

This is a subliminal message to Wayne et.al ....
  Gee . . I wonder if the KC-1 will be integrated onto the PCB . . . .:-).
  What about 1205 smt in a small PCB.... with a little breadboarding area

drool.....

Niel

--------- -.. . .-- .- --... ... .-   --------------------
Niel Skousen, SCIENTECH Special Projects   nskousen@scientech.com
208.525.3742, FAX 529.4721 Idaho Falls ID   WA7SSA QRP-L.119

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Phil Wheeler <pcw12@ix.netcom.com>
Subject: [1290] Re: St. Louis Vertical Poles
Message-ID: <32596E3D.F57@ix.netcom.com>

Doug,

There have been several msgs here reporting shortening of the SLV loading coil to bring resonance up to abt 7MHz (vs. abt 5.5 MHz with the prescribed dimensions). One of the messages referred to the specified "four radials" -- tho my instructions seem to say 3 radials.

In your first SLV message you reported good results on 40 and 30. Was that with the original design or one with a shortened loading coil? Since a tuner (at least a balun, I suppose) is needed anyway, does the exact length of the loading coil (so long as it gives resonance below 7 MHz) really matter all that much? And where did the "four radial" thought come from?

BTW...who had the neat looking unit at the meeting, and do you know the diameter of shrink-wrap he used over the coil? I had to leaave early (under the WX with a long way to drive).

72..Phil w7uox

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>

Subject: [1269] Re: Tantalum vs. Electrolytics
Message-ID: <200007070025.TAA29663@multi2.pic.net>

One other important thing to remember when using tantalums:

They hate high surge currents. This means that they are not a very good choice for application directly across the DC power bus. When you switch on the power, they look like a nice low impedance short and the initial charging current is very high. You have about a one in ten chance that a new tantalum cap will fail at that moment, and when they fail, they fail SHORTED. The solution is to either put in a few ohms series resistance to limit the surge current or derate the voltage rating by a factor of 5. The third option is to use a expensive and hard-to-find wet slug tantalum.

Mike K1MG
Saratoga, CA

> From: Gary Surrency <gsurrenc@ix.netcom.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Re: Tantalum vs. Electrolytics
> Date: Sunday, October 06, 1996 11:10 AM
>
> W. Daniel, 9V1ZV wrote:
> >
> > Hi Gang,
> >
> >   I don't know if my observation is correct but it seems to me that
> > tantalums are very likely to fail with age. Can anyone educate me as to why
> > this happens? What is the real advantage of using a tantalum vs. an
> > electrolytic, for example? Thanks.
> >
> > 73 de 9V1ZV Daniel
>
> Daniel,
>
> It's been my experience that tantalums are not very forgiving to
> accidental applications of reverse polarity, or excessive voltages.
> They seem to be much less forgiving than electrolytics. They will
> open circuit or get leaky.
>
> Tantalums have much lower series inductance, making them better
> for applications where ripple is a problem. Example, a 1uf tantalum
> is equivalent to a 10-30uf electrolytic when used to bypass the
> input pin or adjustment pin of 3 terminal voltage regulators.

>
> I hear they are also poisonous if crushed or broken. Beware. :-(
>
> 72/73,
> --
> Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH
>

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: lve1@inel.gov (Larry V East)
Subject: [1266] RE:tuner efficiency
Message-ID: <2.2.16.19961007150011.27bf3c90@eloi>

>Interesting write up on tuner efficiency.... use of a constant amplitude =
>generator is probably a very good idea. I wonder, however, if the =
>output of the 191 is really 50 ohms. Some generators are, and MOST are =
>not. One way to check on that possibility is to run the output of the =
>191 through about a 6 dB 50 ohm attenuator, and see if you get the same =
>results.
>

It is, indeed, 50 Ohms.

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [1274] Re: Tuner Efficiency

Tony Drumm ARS AA0SM wrote:
>The one problem I see with the approaches being used to measure tuner
>efficiency is the use of a single impedance (and non-reactive) load.

There is a way to use a single capacitor across the ladder-line
as an antenna tuner with no coils to cause losses. The single
capacitor causes minimum losses while achieving a perfectly
resistive match for the balun. No additional tuner is required.

Around the current maximum/resistive minimum point on the ladder-
line, there are some near-magic points.

```
 To___PL-___PL-___PL-___PL-___Imax___PC-___PC-___PC-___PC-___To
Ant   450   300   200    50   Rmin    50   200   300   450   XMTR
```

The Imax/Rmin point is the current loop on the ladder-line, easily

located with a device like the TLC Ladder-Lizard. Current loops occur every half wavelength up and down the ladder-line. A PL-300 point is where a Parallel L(inductance) can be placed that results in a perfectly resistive 300ohms thereby eliminating reflections at that point on 300ohm ladder-line. A PC-200 point is where a Parallel Capacitance can be placed that results in a perfectly resistive 200ohms, a perfect match for a 4:1 balun. So one can achieve any perfectly resistive value (above Rmin) by proper placement of a single parallel capacitance resulting in *absolute minimum losses and no commercial antenna tuner*.

QRPers can't afford a lot of losses. This approach not only eliminates antenna tuner losses but also eliminates losses in baluns due to mismatches. Transmission line losses are minimized through the use of ladder-line. I improved my 75m signal by 3-6dB using this technique.

73, Cecil, W6RCA, OOTC (not speaking for my employer)
Please send any followup to: w6rca@juno.com

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>
Subject: [1260] RE: TV CRT HV
Message-ID: <Pine.3.89.9610070917.A1987-0100000@imc220>

On Tue, 10 Sep 1996, STEVEN WEBER wrote:

> I work on these every day, so froget others might not know...

<good advice on discharging the tube snipped>

> If you want, brake the neck off the tube with a hammer , (after the
> discharge procedure) and you don't have to worry about the tube

This is not the best way. Most picture tubes have a small "nipple" in between the pins on the rear of the tube. Sort of a leftover from when the tube was evacuated and the glass still molten. It is very easy, and much neater, to snap this little blob of glass off with a pair of pliers. It sometime takes several seconds (up to a minute for BIG ones) for the tube to fill with air, and in deference to Ross Perot, you will hear a giant sucking sound :) The usual saftey precautions apply, safety glasses, gloves, room to run :) If anyone is unsure how to go about this send e-mail, I'll even call you back to walk you through it, seen one implode first hand once, don't even want to hear about another one going *!*!* POOOM *!*!*

73,

-- Christopher Cartwright, Tech. Engineer
-- Voice 301.295.0809 N3XRV QRP-L #655
-- Mail dsc3cjc@imc220.med.navy.mil
--   ccart@erols.com

...our chief weapons are fear, fear and surprise, and nice red uniforms, oh damn!!
-- Monty Python

From owner-qrp-l@lehigh.edu Tue Oct 8 08:07:34 1996
Subject: [listproc@Lehigh.EDU: Error Condition Re: manuals]
Message-ID: <tcppop3.219218@wg.dzn.com>

    ================= Begin forwarded message =================

    From: listproc@Lehigh.EDU (unknown)
    To: af852@rgfn.epcc.Edu
    Subject: Error Condition Re: manuals
    Date: Sun, 06 Oct

    af852@rgfn.epcc.Edu: You are not subscribed to qrp-l@Lehigh.EDU.
    Your message is returned to you unprocessed. If you want to subscribe,
    send mail to listproc@Lehigh.EDU with the following request:

         subscribe QRP-L Your Name

    This message cannot be resent again from your address shown above, unless
    its body is slightly modified.

    >From af852@rgfn.epcc.Edu Mon Oct 7 01:10:46 1996
    Received: from nss2.CC.Lehigh.EDU ([128.180.1.26]) by fidoii.cc.lehigh.edu
with ESMTP id <34900-42363>; Sun, 6 Oct 1996 21:10:37 -0400
    Received: from rgfn.epcc.Edu (rgfn.epcc.edu [206.42.175.2]) by
nss2.CC.Lehigh.EDU (8.8.0/8.8.0) with SMTP id VAA38124 for <qrp-l@lehigh.edu>;
Sun, 6 Oct 1996 21:10:31 -0400
    Received: by rgfn.epcc.Edu (4.1/SMI-4.1)
     id AA19594; Sun, 6 Oct 96 19:10:27 MDT
    Date: Sun, 6 Oct 96 19:10:27 MDT
    Message-Id: <9610070110.AA19594@rgfn.epcc.Edu>
    From: af852@rgfn.epcc.Edu (William R Colbert)
    To: ke3nv@erols.com, qrp-l@Lehigh.EDU
    Subject: manuals

Reply-To: af852@rgfn.epcc.Edu

Scott, as I get the list in digest form, I am sure you have probably had requests for the manuals, but in case not (I don't have a need) I would like to suggest (if no takers) that rather than trash them, donate them to the local radio club for their library, or as an alternate - send them to Hi-Manuals, Council Bluffs, Iowa. This fellow sells copies of boatanchor manuals and is always on the lookout for replacements. As a last resort, I would take them for the club library here. I hate to see manuals go where they do no one any good.
73 Ray W5XE

--
Ray Colbert, W5XE/V31XE, El Paso, Tx

--
Ray Colbert, W5XE/V31XE, El Paso, Tx